Dar Al-Handasah Consultants
(Shair and Partners)

in Joint Venture

National Engineering Services
Pakistan (Pvt.) Limited

P21161/A/L0010-21

31st December 2021

Project Director (Karachi Mobility Project)
Sindh Mass Transit Authority,
Transport & Mass Transit Department, Government of Sindh
House # D-43; Block 2; Scheme No. 5; Kehkashan, Clifton, Karachi, Pakistan

Project: Consulting Services for Preparation of Detailed Design, Procurement Support and Construction Supervision for Karachi Mobility Project (Yellow BRT)

Subject: Meeting with SMTA & K-Electric dated 29-11-2021 – Minutes of Meeting

Dear Sir,

With reference to the Technical Coordination meeting held between SMTA, K-Electric teams and the JV Consultants on 29/11/2021, we are pleased to include herewith, for your kind record, a copy of the final Minutes of Meeting "MOM".

Thank you.

Yours faithfully

For the JV of Dar Al-Handasah (Shair & Partners) and Nespak Pvt Ltd.

Rabah Ait-Ali,
Authorized Representative

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KINW#33
03.01.2022

Minutes of meeting

Karachi Mobility Project

Subject: **Yellow Bus Rapid Transit:** Coordination meeting with K-Electric, SMTA and JV Consultants for the Existing Electric Network

Location: K-Electric Qayyumabad Complex, Karachi **Date:** **29/11/2021**

Present: Mr. Muhammad Yousuf Munir – SMTA

Mr. Jalal Jafri – SMTA

Mr. Mian Sarmad Saeed Shah - K-Electric

Lt Col (R) Manzoor Hasan Khan - K-Electric

Mr. Alam Sher - K-Electric

Mr. Imran Habib - K-Electric

Mr. Gul Hassan - K-Electric

Mr. Yazdani Tariq - K-Electric

Mr. M. Adil Farooq - K-Electric

Mr. Mohamed Abd Elaziz – DAR and NESPAK JV

Mr. Rehan Zamin – DAR and NESPAK JV

Mr. Muhammad Kashif – DAR and NESPAK JV

Mr. Faisal Karim Khan – DAR and NESPAK JV

Copies to: Mr. Imran Bhatti – SMTA

Mr. Ali Abbany – DAR and NESPAK JV

Mr. Bahjat Ghandour - DAR and NESPAK JV

Ref.	Items discussed	For action by
1.	The meeting was held among **Sindh Mass Transit Authority – SMTA (Client), K-Electric and the Consultants Dar Al-Handasah and NESPAK (JV) of the Yellow BRT Line Project,** to coordinate and discuss the existing K-Electric network within the project boundary.	Info.
2.	The JV briefed K-Electric team regarding the project background of BRT Yellow and highlighted that various site surveys were performed during the preliminary design stage of the project in 2016 and 2019 and accordingly KE team marked their lines on the drawing. An online meeting was also held dated 28th October 2021.	Info.
3.	The JV mentioned that 132KV overhead line (pylon structures with 240m spacing approximately) is located in the center median of 8000 Road between Brookes Roundabout and Murtaza Roundabout, and during the Preliminary Design, the BRT lanes were planned at the existing road/median edge in such a way that the kerb of the	Info

Minutes of meeting

Ref.	Items discussed	For action by
	existing median would remain undisturbed. The JV also added that there is another underground line of 132KV located from NMC to CSD.	
4.	The K-Electric team clarified that they have requirements to be considered in the design of the project pertaining to the existing network, as follows: a. Requirement of EHT OH Vertical clearance is 6.2m, whereas Horizontal clearance are 5.4m & 8.2m from the edge of conductor and center of the pylon, respectively, as per NEPRA code. SMTA representative requested a copy from NEPRA code for complete confirmation on these requirements. b. Provision of access for maintenance vehicle in central Median at 8000 Road should be maintained. c. Getz Pharma operates a dedicated circuit cross Bilal Chowrangi. Info to be collected from Getz Pharma. d. EHT UG oil-filled circuit is laid in central median from NMC to CSD bunker. e. Various EHT UG circuits were discussed along the project alignment, where relocation should be considered in the design away from any works. f. EHT UG circuit is proposed along Sh-e-Quaideen and Purchase order is already issued by K.E. **Post Meeting Note:** K-Electric provided a copy of the NEPRA Code via their e-mail dated 29/12/2021.	Info.
5.	The JV clarified that, they have checked the impact of the existing pylons along 8000 Road on the current design of the BRT corridor and noticed that some locations cannot satisfy the minimum clearance required by K-Electric, based on the conducted topographical survey along the project area. The JV asked K-Electric to provide the following information to have more accurate check of the impact of the existing pylons and the underground network on the design layout: a. Typical Section Drawing showing the details of pylon and required Clearances. b. EHT UG Networks **Post Meeting Note:** K-Electric provided a copy of the pylon details as well as the underground network for the Yellow BRT corridor, via their e-mail dated 29/12/2021.	Sarmad Saeed (K-Electric)
6.	The JV asked K-Electric Team to verify and update the KE lines marked on the drawing during the preliminary design in 2019.	Sarmad Saeed (K-Electric)
7.	All parties agreed to have a Joint Site Visit to discuss and finalize the relocation after updating K-Electric Network on the drawings.	Sarmad Saeed (K-Electric) Mir Sadat

Minutes of meeting

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	Post Meeting Note: The site visit has been held and attended by K-Electric and the JV engineers to identify the location of the existing network. Another site visit is planned to take place on the 1st week of January 2022 to complete the identification of the remaining part of the network.	

Prepared by: Mohamed Abd Elaziz Signature:

Issue date: December 2, 2021